

4

6

ENVIRONMENTAL PROTECTION AGENCY  
REGION II  
EDISON, NEW JERSEY 08817

REPLY TO  
ATTN OF:

2 SA-TEC

DATE: June 19, 1974

SUBJECT:

Laboratory Analysis - Ventron Corporation - June 7, 1974

TO:

Chief, Emergency Response Branch

EPA Lab  
Sample No.

Sample Source

33601	Collected from small pile of solid material, 3' deep x 2' x 3' at Ventron Corporation
33602	Collected from small tanks 20' x 15' behind Bldg. 13A, Ventron Corporation
33603	Collected from drum behind Bldg. 9, Ventron Corporation
33604	Collected at well at storm water outlet from plant, Ventron Corporation
33605	Collected at pad behind Bldg. 16, Ventron Corporation
33606	Collected from small pile of powdery material (1 cu ft)
33607	Collected from Ventron Corporation — bottle containing a pesticide as per bottle label (Cd dimethyldithiocarbamate)
33608	Collected from concrete trough in front of Bldg. 16, 2" deep, 30-35" long and 1' wide, Ventron Corporation
33609	Collected from mud pile 10' x 2' x ½', Ventron Corp.
33610	Water sample collected above demolition site at Moonachie Rd., Ventron Corporation
33611	Sample of mud collected at a creek above Ventron plant site on Moonachie Rd.
33612	Sample of water collected from Berry's Creek below the Ventron plant site at bridge on Paterson Plank Rd. near Marior Sani-Can.

# RESULTS

(Metals by Atomic Absorption Spectrophotometry Except Where Otherwise Indicated)

EPA Lab Sample No.	<u>Hg</u> mg/l	<u>Ag</u> mg/l	<u>Cd</u> mg/l	<u>Zn</u> mg/l	<u>Ni</u> mg/l	<u>Cu</u> mg/l	<u>Pb</u> mg/l	<u>Mn</u> mg/l	Emission Spec. Scan Al, Mg, Fe
33602	50	< 2	< 0.1	2	< 0.6	< 0.6	< 1	0.5	*
33604	15 ✓	< 2	0.12	3	< 0.6	< 0.6	< 1	0.4	*
33608	285	15	0.60	1,800	5	4.8	2	92	*
33610	0.22	< 2	< 0.1	0.6	< 0.6	< 0.6	< 1	0.8	*
33612	14	< 2	< 0.1	< 0.6	< 0.6	< 0.6	< 1	8	

EPA Lab Sample No.	%S	<u>Hg</u> mg/kg	<u>Ag</u> mg/kg	<u>Cd</u> mg/kg	<u>Zn</u> mg/kg	<u>Ni</u> mg/kg	<u>Cu</u> mg/kg	<u>Pb</u> mg/kg	<u>Mn</u> mg/kg	Emission Spec. Scan Al, Mg, Fe
33601		9,500	< 50	2.5	155	35	220	95	400	*
33603	40.4	11.5	< 100	7	200,000	< 30	< 30	60	24	
33605		1,000,000								
33606		540	170	5	200,000	670	110	660	310	*
33607	16.5	1,600	< 100	110,000	< 30	< 30	< 30	80	10	
33609		17,700	180	43	3,800	190	70	70	2,400	
33611		9.9	< 2	2.5	130	0.8	35	45	13	*

\*Major components in the residue > 1%.

EPA Sample 33605 contained visible metallic mercury along with dirt and sand particles adhering to the mercury.

EPA Sample 33603 was collected from a drum labelled ziram fungicide (zinc dimethyldithiocarbamate), therefore, elemental analyses for zinc and sulfur were performed.

% S found = 40.4  
theoretical = 41.9

% Zn found = 20.0  
theoretical = 20.7

EPA Sample 33607 was in a bottle labelled cadmium dimethyl-dithiocarbamate (CDDC), 10% wettable powder, Woodridge Chemical Corporation. Elemental analysis for cadmium and sulfur and IR analysis established its identity as a 35-46% wettable powder.

% Cd found = 11.0  
theoretical for 100% CDDC = 31.7  
% S found = 16.5  
theoretical for 100% CDDC = 36.1

The remainder of the sample is probably a clay material.

EPA Sample 33606, based upon emission spec. scan and atomic absorption spectrophotometry, visual inspection and ignition testing, appears to be a mixture of metallic oxides. The brown color is probably mostly due to iron oxides.

*Francis T. Brezenski*  
Francis T. Brezenski  
Chief  
Technical Support Branch